

Your ref. :
Our ref. : YL/2020/01/COR/EN04/000272

Date : 26 October 2021

By Post

Environmental Protection Department
Environmental Assessment Division
27/F, Southorn Centre,
130 Hennessy Road,
Wan Chai, Hong Kong

Attention: Dr. Cheung Chun Wah, Sam (Env Protection Officer (Strategic Assessment) 11)

Dear Sir,

Contract No. YL/2020/01

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

Submission of Emergency Contingency Plan under EP-477/2013/A


We are main contractor of the captioned Civil Engineering and Development Department (CEDD) project.

According to Environmental Permit (ref. EP-477/2013/A) Condition 2.11, we would like to submit herewith the four hard copied and two electronic copied of Emergency Contingency Plan for your reference.

Should you have any query, please feel free to contact our Ms. Lila Lui at 5261 0378.

Thank you for your attention.

Yours faithfully
For and on behalf of
CRCC – Kwan Lee - Paul Y. JV


James Au
Site Agent

JA/JC/LW/ll

Encl.

cc. AECOM - Mr. Conrad Ng
AECOM - Mr. Roger Man

Our ref.: WL/WMA21009/Corres/Out/CEDD/it211022

Civil Engineering and Development Department
West Development Office
West Division (5)
26/F, Tsuen Wan Government Offices,
38 Sai Lau Kok Road,
Tsuen Wan, Hong Kong

By Mail
22nd October 2021

Attn.: Ms. CHAN Fung Chi, Cathleen

Dear Ms. Chan,

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team
Contract No: YL/2020/01 Development of Lok Ma Chau Loop Main Works Package 1 Contract 1 – Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- **Emergency Contingency Plan**

I refer to the revised Emergency Contingency Plan (Revision: 04) dated 22 October 2021 submitted by the Contractor (CRCC – Kwan Lee – Paul Y. JV) for the captioned project.

I am pleased to inform you that I have no further comment on the Plan and agree to certify the above document in accordance with the EP (No. EP-477/2013/A), Condition 2.11.

Should you have any further information, please feel free to contact our Mr. Howard Chan at 2151 2073 or the undersigned at 2151 2089.

Yours faithfully,
Wellab Limited



Dr. Priscilla Choy
Environmental Team Leader

c.c. AECOM (Attn: Eric Wong)
IEC (Attn.: Mr. Raymond Dai)

By e-mail
By e-mail



Our ref.: LES/J2021-04/CS/L026
Date : 22 October 2021

By Post & Email

Civil Engineering and Development Department
West Development Office
West Division (5)
26/F, Tsuen Wan Government Office,
38 Sai Lau Kok Road, Tsuen Wan,
New Territories

Attn: Ms. JIM Wing Yan, Eva

Dear Ms. JIM,

**Agreement No. WD/01/2020
Development of Lok Ma Chau Loop: Main Works Package 1 – Independent
Environmental Checker**

Verification of Emergency Contingency Plan

Reference is made to the Emergency Contingency Plan of certified by the Environmental Team Leader on 22 October 2021. We hereby verify the captioned submission in accordance with Clause 2.11 of the Environmental Permit No. EP-477/2013/A for the project of Development of Lok Ma Chau Loop.

Should you have any query, please feel free to contact the undersigned.

Yours faithfully,
For and On Behalf Of
Lam Environmental Services Limited


Raymond Dai
Independent Environmental Checker

c.c. Binnies Hong Kong Limited
AECOM
Wellab Limited

Mr. Terrant Cheung
Mr. Samuel Chan
Dr. Priscilla Choy

By Email
By Email
By Email

**Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 1
Site Formation and Infrastructure Works inside Lok Ma Chau Loop
and Western Connection Road Phase 1
Submission Review Record**

Contract No.: YL/2020/01		Submission No.: CSF/HSE/000035			
Title of Submission: Emergency Contingency Plan					
<p>Part A <i>(to be completed by the Project Manager)</i></p> <input type="checkbox"/> Accepted <input type="checkbox"/> Accepted, with comments <input checked="" type="checkbox"/> Resubmit, with response against each and individual comment required <input type="checkbox"/> Rejected					
<p>Instruction for completing the form:</p> <ol style="list-style-type: none"> Reviewer - Name of reviewer Document/Reference - Reference clause/section of the document under review Project Manager's comments - Comments made by the Project Manager's delegate Contractor's Response - the Contractor clearly and precisely states where and how each of the Project Manager's comment is addressed Action Due Date - A calendar date or programme milestone Status - Put "C" when item closed and further action from the Contractor not required 					
<p>Part B - applicable when only response is required from Contractor as indicated in Part A <i>(to be completed by the Contractor)</i></p> <p>Agree and to take action on all of the Project Manager's comments accordingly</p> <p>From Contractor's Representative</p> <p>Name & Title: Lila Lui (Environmental Officer)</p> <p>Signature: </p> <p>Date: 24 August 2021</p>					
ITEM NO.	REVIEWER	DOCUMENT REFERENCE	PROJECT MANAGER'S COMMENTS	THE CONTRACTOR'S RESPONSE	STATUS
			Description of Comment	Response	Action due date <small>(C-closed; blank-open) (COMPLETED BY the Project Manager)</small>
1.	AECOM	Section 3.1.2, Section 7 and Appendix B	It is stated in Section 3.1.2 and Section 7 of your submission that the construction chemical and material and emergency equipment will be stored near/at Portion 9, which does not correlate with the location of "Emergency Equipment Location" indicated on your layout plan in Appendix B. Please review.	Amend accordingly.	
2.	AECOM	Section 8	Pursuant to Particular Specification Clause 1.63(6)(e), the refresher talk which includes the topic of emergency procedures shall be given at intervals of 6 months instead of yearly basis as stated in your plan. Please revise.	Amend accordingly.	
3.	AECOM	Appendix A1	Portion of Site (Sheet 10 of 10) is missing. Please supplement.	Added accordingly.	
4.	AECOM	Appendix B	Please also include in your layout plan the location of the containers for chemical storage.	Added in Appendix B	
5.	AECOM	Appendix C	Some of the names and contact numbers are missing. Please be reminded to provide once available.	Updated.	
- End -					

Contractor's Reply to Comments

ET' s Comments/ Reminders (Via email dated 21/9/21)	Contractor' s Reply
1 Please update the EP number throughout the plan.	Noted and updated.
2 Please amend "Emergency Equipment" to "Emergency Response Equipment" and "Emergency Team" to "Emergency Response Team" throughout the plan.	Amended accordingly.
3 Section 1.2.2: Please include "Emergency Response Team" under this section according to EP condition	Supplemented accordingly.
4 Section 2: Please review if potential emergency situation such as water seepage from fish ponds, damaged / destabilized pond bunds occur under the Project. If yes, please update the relevant section of Plan to include the appropriate action / response procedures.	Supplemented as 2.1.3 and 2.1.4
5 Please consult the fish pond operators for the details of the contingency plan and including the record in the Plan.	Supplemented as 2.1.6 and Appendix E
6 Appendix A2: Please indicate the location of fish ponds in the drawing.	Noted and indicated the location of fish ponds in the drawing.
7 Please provide the catalogue / specification (if any) of the emergency response equipment.	Supplemented as Appendix F.

Contractor's Reply to Comments

	ET' s Comments/ Reminders (Via email dated 22/10/21)	Contractor' s Reply
1	The updated EP number should be EP-477/2013/A. Please correct it throughout the plan.	Noted. The EP number has been updated.
2	Please remove a blank page (no. 6).	Noted. The blank page has been deleted.
3	Section 1.2.3: According to Section 3.1.2, construction chemicals and materials will be stored in off-site wetland compensation area, please further review the concerned works under this section.	Noted. The identified concerned works has been amended. Please refer to section 1.2.3.



Contract No: YL/2020/01 Development of Lok Ma Chau Loop: Main Works
Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok
Ma Chau Loop and Western Connection Road Phase 1

Contract No:

YL/2020/01

Project Title:

**Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site
Formation and Infrastructure Works inside Lok Ma Chau Loop and Western
Connection Road Phase 1**



Emergency Contingency Plan

(Environmental Permit ref. no. EP-477/2013/A Condition 2.11)

Revision: **04**

Date: **22 October 2021**


Revision Summary

Revision No.	Description for Amendment	By	Date
Draft	1 st Draft Revision	Pan Fong	2 Aug 21
1	Response to the Supervisor 's comment in letter ref C1/(YL/2020/01)/M40/500/B000061	Lila Lui	23 Aug 21
2	1. Updated Appendix B Location of Container for Chemicals and Emergency Response Equipment 2. Updated Appendix C Contact List of Emergency Response Team	Lila Lui	10 Sep 21
3	Response to the ET 's comment via email 21 Sep 2021	Lila Lui	19 Oct 21
4	Response to the ET 's comment via email on 21 Oct 2021	Lila Lui	22 Oct 21

Endorsed By:

Position	Signature	Name	Date
Site Agent		James Au	22/10/21

Prepared by:

Position	Signature	Name	Date
Environmental Officer		Lila Lui	22/10/21

CONTENTS

1. BACKGROUND.....	4
2. POTENTIAL EMERGENCY SITUATION.....	6
3. CHEMICAL AND HAZARDOUS MATERIAL USED ON SITE AND RESPECTIVE LOCATION...	6
4. PREVENTION AND PRECAUTION.....	7
5. EMERGENCY RESPONSE PROCEDURES	9
6. LIST OF EMERGENCY TELEPHONE HOTLINES.....	12
7. LOCATIONS AND TYPES OF EMERGENCY RESPONSE EQUIPMENT.....	13
8. TRAINING PLAN AND TESTING FOR EFFECTIVENESS	14

LIST OF APPENDICES

Appendix A1	General Site Layout Plan
Appendix A2	Site Layout Plan for Portions of the Concerned Works
Appendix B	Location of Container for Chemicals and Emergency Response Equipment
Appendix C	Contact List of Emergency Response Team
Appendix D	Training Materials for Emergency Contingency Plan
Appendix E	Photo Record of the Communication with Fish Pond Operator and Villager Representative
Appendix F	Catalogue of the Emergency Response Equipment

1. BACKGROUND

1.1 Project Information

The works to be executed under this contract involve construction of proposed site formation and infrastructure works inside Lok Ma Chau Loop and western connection road as more particularly described in this Works Information below:

- Ground treatment and site formation works of about 75 hectares within the Lok Ma Chau Loop (the Loop);
- Construction of about 3,000-metre-long carriageway and associated footpaths and cycle tracks, and a public transport interchange, within the Loop;
- Construction of Western Connection Road Phase 1 through widening of the existing Ha Wan Tsuen East Road of about 800m long; associated ground treatment and site formation works; construction of footpath, cycle track, slopes and retaining walls; and construction of a bridge about 60m long over the old Shenzhen River meander;
- Provision of other infrastructure, including a tertiary sewage treatment works and sewerage system, a water supply system and a drainage system, and other associated works; and
- Environmental mitigation measures including compensation for offsite wetland of about 18 ha and offsite woodland of about 1.3 ha.

The layout of the Site please see **Appendix A**.

1.2 Scope of Emergency Contingency Plan

1.2.1 According Clause 2.11 of Environmental Permit: Due to the presence of many fish ponds at/near the Project area and access roads, in order to handle the potential spillage of chemicals or contaminated soil.

1.2.2 This Emergency Contingency Plan shall be submitted at least one month before the commencement of the concerned works. The Plan shall include the following:

- a) Potential emergency situations;
- b) Chemicals or hazardous materials used on-site (and their location);
- c) Prevention and Precaution;
- d) Emergency response procedures;
- e) List of emergency telephone hotlines;
- f) Locations and types of emergency response equipment; and
- g) Training plan and testing for effectiveness; and
- h) Emergency Response Team

1.2.3 Since this Emergency Contingency Plan is for the prevention of potential spillage of chemicals or contaminated soil nearby fish ponds, the **concerned works** are identified near to the fish ponds as shown below:

- a) Widening of the existing Ha Wan Tsuen East Road of about 800m long;
- b) Off-site Wetland Creation Works.

1.2.4 A layer of sheet pile/barrier wall will be erected to separate the works area from the remaining areas of the affected fish ponds before the commencement of other construction works, e.g., excavation or filling within the works area

1.2.5 Construction works inside the loop are not be considered as **concerned works** since as the work area inside the loop is surrounded and isolated by meander and further away from nearby fish ponds.

1.2.7 The conversation with villager representative and fish pond operator were taken regarding our scope works and possibility of spillage of chemical during the works. They were no objection on the

2. POTENTIAL EMERGENCY SITUATION

2.1.1 The general site layout plan indicated the works area is attached as **Appendix A1**, and the site plan showing every Portions for concerned works is attached **Appendix A2**. The most happening of chemical spillage to nearby fish ponds due to **concerned works** are shown as follows:

- a) Leakage of lubrication oil by the construction vehicle/plant using access road.
- b) Leakage of fuel oil during fuel injection of construction plant/machine.
- c) Leakage of contained construction chemical/material (such as: retarder, curing compound, cement)
- d) Accidental spillage of chemical.
- e) Fish Pond water contaminated by site runoff

2.1.2 For the construction works within the LMC Loop, contaminated runoff to the meander could be the potential pollution sources to meander.

2.1.3 For the works be required close to any fish ponds, a layer of sheet pipe wall should be erected along the site boundary adjacent to fish ponds to avoid the water seepage from the ponds.

2.1.4 When the pond bund be damaged, use water pump to transfer the water of the fish pond to standby water container and the sand bag bund will be place along the edge of the damaged / destabilized pond bunds.

3. CHEMICAL AND HAZARDOUS MATERIAL USED ON SITE AND RESPECTIVE LOCATION

3.1.1 As mentioned above the chemical/hazardous materials used on site will be:

- a) Lubrication oil
- b) Fuel oil
- c) Construction chemical – such as: Retarder, Curing Compound, Cement additive.
- d) Construction material – such as: Cement, Bentonite, Non-shrinkage grout.

3.1.2 A small amount of lubrication oil will be stored at individual plants or maintenance van. The fuel oil will be stored in the fuel truck of supplier. Those construction chemical and material will be stored in a cover container near Portion 17A as refer to attached marked-up drawing which enclosed as **Appendix B**.

4. PREVENTION AND PRECAUTION

4.1 General Precaution

- a) Avoid disorder and storage of unnecessary materials in working areas.
- b) Prevent obstructions and tripping hazards.
- c) Prepare all required emergency response equipment as in the list of **Section 7** prior to commencement of work. Catalogue of the Emergency Response Equipment is attached as **Appendix F**
- d) Prohibit smoking at or near the dangerous goods stores.

4.2 Storage Precautions

- a) Use solid and impermeable enclosure walls or storage containers.
- b) Reduce the danger of falling of stacked containers.
- c) Provide tightly closed lips to avoid leakage of chemical wastes to further reduce the danger of container falling.
- d) Store compatible chemical wastes in the same storage area.
- e) Inspect the storage area to detect if any leakage or defective containers on a regular basis.
- f) Use suitable containers which are resistant to the stored chemical wastes to avoid leakage or spillage.
- g) Check the conditions of the storage containers regularly.
- h) Identify and provide suitable notices in storage area.
- i) Provide adequate ventilation in the storage area.
- j) Prohibit open flame and smoking near the chemical waste storage area.
- k) Prevent mixing of incompatible chemical wastes.
- l) Carry out mixing of compatible chemical wastes outside the storage area.
- m) Store large and heavy containers on the floor as far as possible or avoid storage of these containers higher than 3 feet from the floor.
- n) Keep chemical waste containers below eye level.
- o) Provide adequate space for handling of the containers.
- p) Maintain a log of chemical wastes.
- q) Separate incompatible chemicals from each other.

4.3 Transfer and Transport Precautions

- a) Consider the size of the container to avoid overfilling.
- b) Use pumps to transfer chemical wastes instead of simple pouring.
- c) Provide containment structure to hold the chemical wastes when leakage or spillage of chemical waste occurs.
- d) Use safety and suitable labeled containers.

- e) Use suitable carriers to transfer the chemical waste containers from one location to another place.
- f) Employ licensed waste collectors to be responsible for chemical waste transport and proper disposal.

5. EMERGENCY RESPONSE PROCEDURES

5.1 Spillage of Chemical and Contaminated soil

- a) Site Agent is assigned to be the contact of the emergency response team, his contact telephone no. should be appeared on the relevant list for reference. The contact list of emergency response team as attached at **Appendix C**.
- b) Notification of any spillage of chemicals or contaminated soil (i.e. emergency situations) to all relevant parties such as Project Manager, the Supervisor, ET and IEC immediately.
- c) Keep contaminated personnel away from the spillage area or evacuate all personnel and call the emergency service if the spills are highly toxic and volatile.
- d) Provide forced ventilation in the spillage area.
- e) Allow only trained persons who have equipped with protective clothing and equipment to enter the spillage area for cleaning up.
- f) Transfer the spills back into containers using suitable equipment whenever practicable.
- g) Use suitable absorbing materials to clean up the spills and dispose the absorbing materials as chemical wastes.
- h) Use suitable solvent to clean the spillage area after removing the spills.
- i) Inform Drainage Services Department, Environmental Protection Department and other relevant Authorities in the case where the spillage of chemicals would cause serious contamination of an area of risk of pollution.
- j) Prepare necessary protective devices, safety equipment, containers and clean up materials for emergency use.
- k) Train staff to handle the spillage of chemicals/contaminated soil.
- l) Evaluate the potential hazard of the chemical wastes

5.2 Leakage of Contaminated Runoff within LMC Loop

- a) Site Agent is assigned to be the contact of the emergency response team, his contact telephone no. should be appeared on the relevant list for reference. The contact list of emergency response team as attached at **Appendix C**.
- b) Keep contaminated personnel away from the leakage area.
- c) Allow only trained persons who have equipped with protective clothing and equipment to enter the leakage area for remedial works.
- d) Use water pump to transfer the contaminated run-off to the standby water container to lower down the water level at U-channel. At the same time a sand bag bund will be placed along the edge of leakage area to avoid the further contamination.
- e) Transfer the potential contaminated soil to storage area or treatment plant using suitable equipment whenever practicable.
- f) Use suitable absorbing materials to clean up the leakage and dispose the absorbing materials as

chemical wastes.

g) Notification of any spillage of chemicals or contaminated soil (i.e. emergency situations) to all relevant parties such as Project Manager, the Supervisor, ET and IEC immediately.

h) Inform Drainage Services Department, Environmental Protection Department and other relevant Authorities in the case where the leakage of contaminated run-off would cause serious contamination of an area of risk of pollution.

5.3 Spill Clean Up And Disposal Procedure

- a) Inform the site foreman and environmental officer once spillage/leakage occurs
- b) Evacuate site staff to safe place.
- c) Instruct trained staff to assist handling the control and disposal process.
- d) Prevent spreading of fumes and vapors by closing doors and windows of spillage area.
- e) Control the leakage of the chemical wastes and absorb the spills by using suitable absorbing materials (e.g. chemical spillage kit).
- f) Use acidic or alkaline solution for neutralization wherever appropriate.
- g) Take special precautions for flammable wastes and wastes in powder form.
- h) Keep and label the cleanup wastes.
- i) Clean the spillage area and equipment used in the response actions.
- j) Dispose the cleanup wastes as chemical wastes.

6. LIST OF EMERGENCY TELEPHONE HOTLINES

The emergency contact list is attached as Appendix C of this submission and the Hotline Number for emergency is 9775 3008.

7. LOCATIONS AND TYPES OF EMERGENCY RESPONSE EQUIPMENT

The list for the equipment is below:

- a) Fire extinguishers
- b) Brush, dustpan, mop and bucket
- c) Dry sand
- d) Tissue and toweling
- e) Containers including plastic bags, drums, etc.
- f) Absorbing materials
- g) Pumps
- h) Sampling devices
- i) Chemical Spill Kit
- j) Excavator
- k) Dump truck/Grab lorry
- l) Sand bags
- m) Water container for storage contaminated run-off
- n) Portable generator

That emergency response equipment will be stored at the office of Temporary Accommodation of the Contractor at Portion 17A and Off-site Wetland Compensation Area (Portion 3, Portion 1, Portion 2B) shown in **Appendix B**.

8. TRAINING PLAN AND TESTING FOR EFFECTIVENESS

The team members in the emergency contact list will be well trained before joining into the list and the training will be based on our Approved Project Safety Plan and those training will be re-fresher in a year basis. To test the effectiveness of training, drills for different Potential Emergency Situation will be conducted at intervals of 6 months. The training material for emergency contingency plan is attached as **Appendix D.**

APPENDIX A1

General Site Layout Plan

APPENDIX A2

Site Layout Plans for Portions of the Concerned Works

DEVELOPMENT OF
LOK MA CHAU LOOP
MAIN WORKS PACKAGE 1
CONTRACT TITLE
SITE FORMATION AND
LOK MA CHAU LOOP AND
WESTERN CONNECTION ROAD
PHASE 1

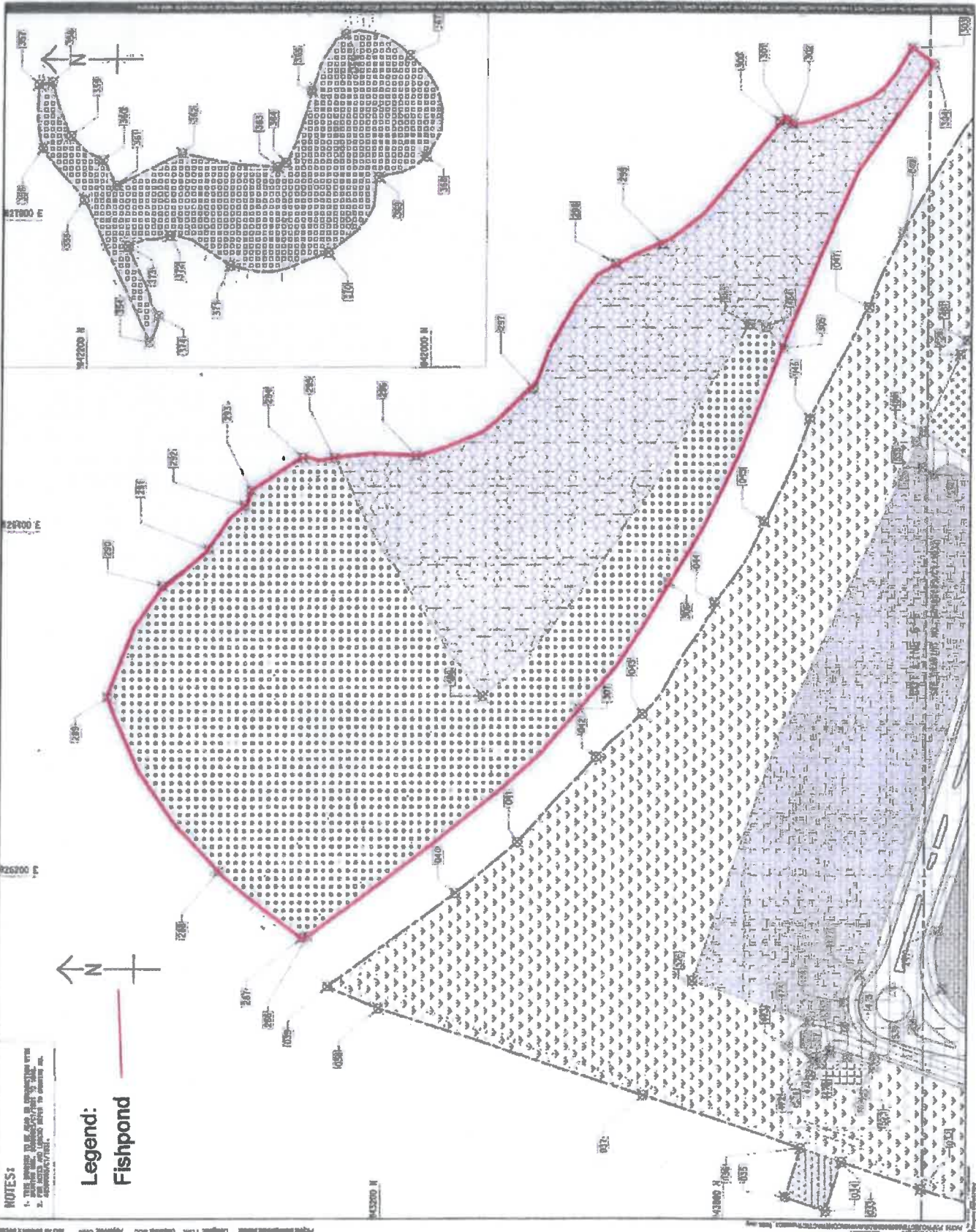
香港工程發展局
土地發展署
AECOM Asia Company Ltd.
www.aecom.com

NO.	DESCRIPTION	DATE
1	PRELIMINARY DESIGN	2011/01/01
2	FINAL DESIGN	2011/01/01
3	CONSTRUCTION	2011/01/01
4	OPERATION	2011/01/01

SCALE: AS SHOWN
DATE: 2011/01/01



PROJECT NO.: 11/2009/AL
SHEET TITLE: PORTION OF SITE
SHEET 2 OF 19



NOTES:
1. THIS DRAWING IS FOR INFORMATION ONLY.
2. FOR ACTUAL AND LATEST DATA TO OBTAIN AN
ACCURATE RESULT.

Legend:
Fishpond



AECOM

PROJECT

DEVELOPMENT OF
LOK MA CHAU LOOP
MAIN WORKS PACKAGE 1
CONTRACT TITLE
SITE FORMATION AND
REINFORCEMENT AND
CONCRETE WORKS FOR
LOK MA CHAU LOOP AND
WESTERN CONNECTION ROAD
PHASE 1

CLIENT

中水工程發展有限公司
Environmental Protection
Department

DESIGN TEAM

AECOM Asia Company Ltd.
www.aecom.com

DATE

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER (REVISIONS NO. 1)	11/03/2012
2	ISSUED FOR TENDER (REVISIONS NO. 2)	11/03/2012
3	ISSUED FOR TENDER (REVISIONS NO. 3)	11/03/2012
4	ISSUED FOR TENDER (REVISIONS NO. 4)	11/03/2012
5	ISSUED FOR TENDER (REVISIONS NO. 5)	11/03/2012
6	ISSUED FOR TENDER (REVISIONS NO. 6)	11/03/2012
7	ISSUED FOR TENDER (REVISIONS NO. 7)	11/03/2012
8	ISSUED FOR TENDER (REVISIONS NO. 8)	11/03/2012
9	ISSUED FOR TENDER (REVISIONS NO. 9)	11/03/2012
10	ISSUED FOR TENDER (REVISIONS NO. 10)	11/03/2012

SCALE

AS SHOWN
AS 1:1000

DATE

11/03/2012

BY

AS 1:1000

SCALE

AS SHOWN

DATE

11/03/2012

BY

AS 1:1000

SCALE

AS SHOWN

DATE

11/03/2012

BY

AS 1:1000

SCALE

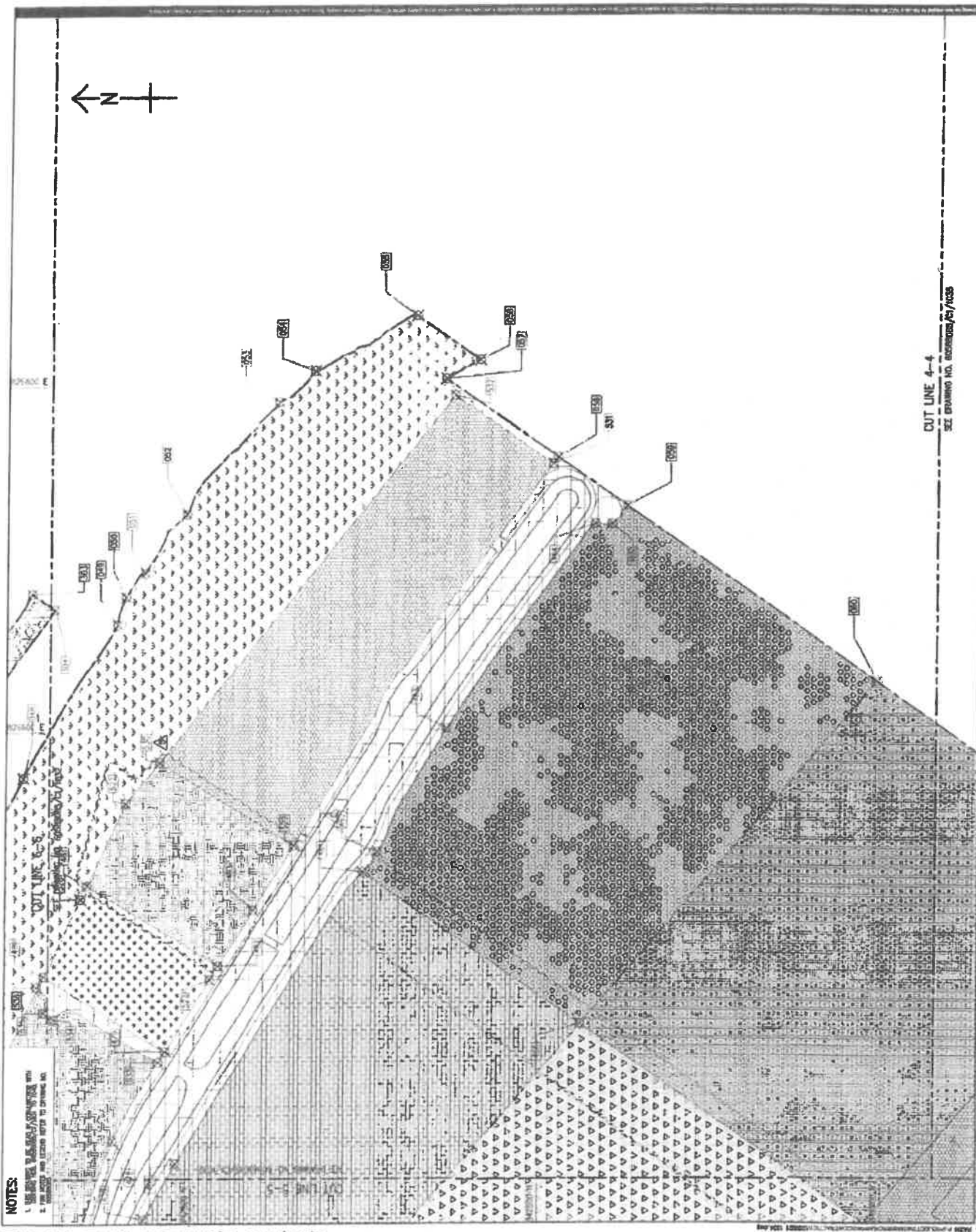
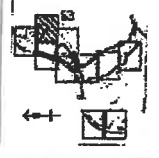
AS SHOWN

DATE

11/03/2012

BY

AS 1:1000



NOTES:

1. THE ABOVE PLAN IS FOR INFORMATION ONLY.
2. THE ABOVE PLAN IS FOR INFORMATION ONLY.

CUT LINE 4-4

SEE DRAWING NO. 002/003/05/1035

PROJECT
 DEVELOPMENT OF
 LOK MA CHAU LOOP
 MAIN WORKS PACKAGE 1
CONTRACT TITLE
 INFRASTRUCTURE WORKS
 FOR LOK MA CHAU LOOP AND
 MAIN WORKS CONNECTION ROAD
 PHASE 1

CLIENT
 香港土地發展局
 LHD
 Civil Engineering and
 Management Department

CONSULTANT
 AECOM Asia Company Ltd.
 www.aecom.com

SCALE
 1:1000

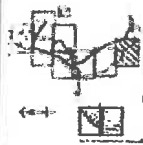
DATE
 14/03/2014

NO.	REVISION
1	ISSUE FOR TENDER
2	REVISED FOR TENDER
3	REVISED FOR TENDER
4	REVISED FOR TENDER
5	REVISED FOR TENDER
6	REVISED FOR TENDER
7	REVISED FOR TENDER
8	REVISED FOR TENDER
9	REVISED FOR TENDER
10	REVISED FOR TENDER

PROJECT NO.
 11/000

DATE
 14/03/2014

SCALE
 AS SHOWN



PROJECT NO.
 11/000

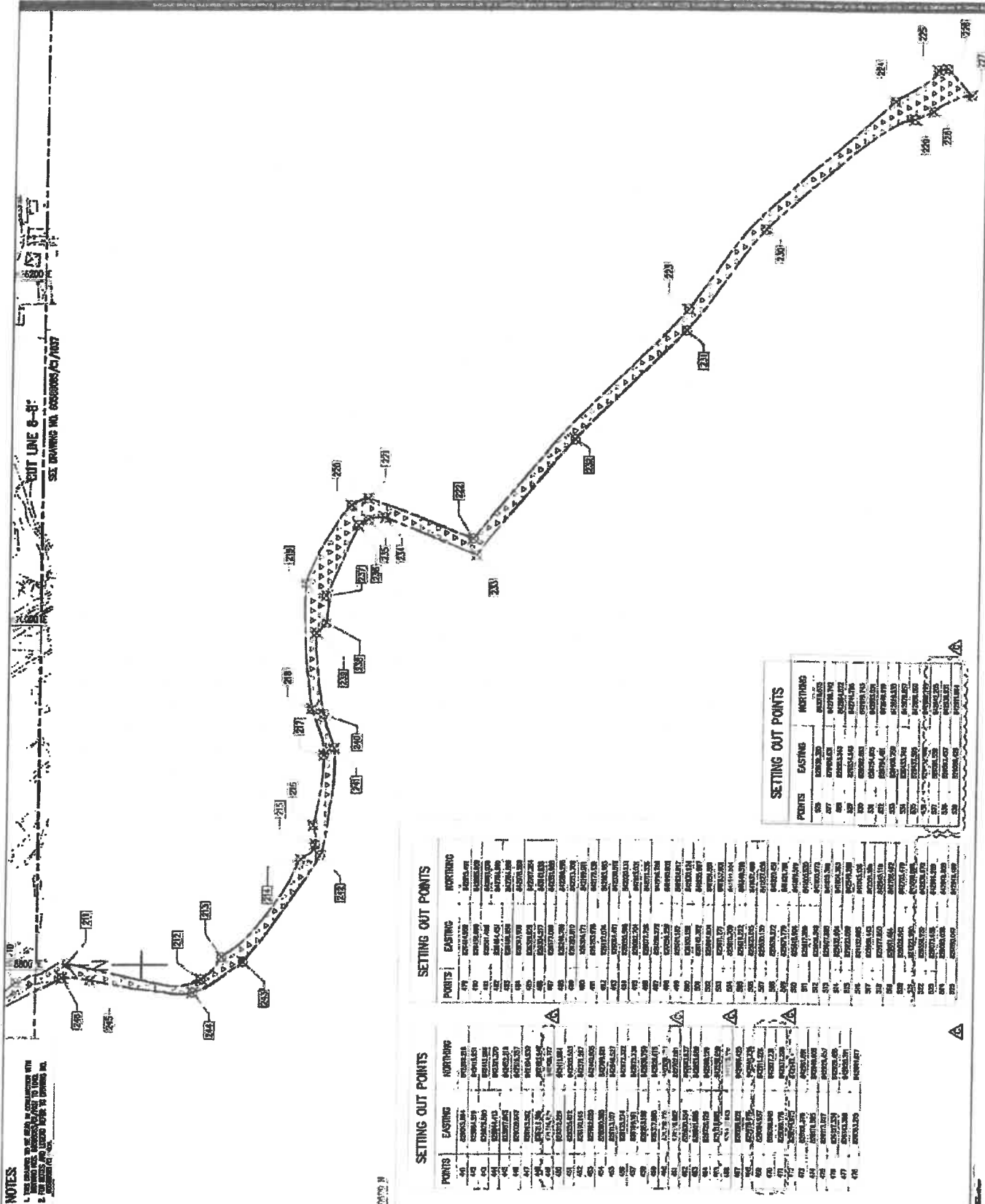
DATE
 14/03/2014

SCALE
 AS SHOWN

PORTION OF SITE

PROJECT NUMBER
 11/000

SHEET NO. OF 14



NOTES

1. THE DRAWING IS TO BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS AND THE SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

SETTING OUT POINTS

POINTS	EASTING	NORTHING
201	480000.00	100000.00
202	480000.00	100000.00
203	480000.00	100000.00
204	480000.00	100000.00
205	480000.00	100000.00
206	480000.00	100000.00
207	480000.00	100000.00
208	480000.00	100000.00
209	480000.00	100000.00
210	480000.00	100000.00
211	480000.00	100000.00
212	480000.00	100000.00
213	480000.00	100000.00
214	480000.00	100000.00
215	480000.00	100000.00
216	480000.00	100000.00
217	480000.00	100000.00
218	480000.00	100000.00
219	480000.00	100000.00
220	480000.00	100000.00
221	480000.00	100000.00
222	480000.00	100000.00
223	480000.00	100000.00
224	480000.00	100000.00
225	480000.00	100000.00
226	480000.00	100000.00
227	480000.00	100000.00
228	480000.00	100000.00
229	480000.00	100000.00
230	480000.00	100000.00
231	480000.00	100000.00
232	480000.00	100000.00
233	480000.00	100000.00
234	480000.00	100000.00
235	480000.00	100000.00
236	480000.00	100000.00
237	480000.00	100000.00
238	480000.00	100000.00
239	480000.00	100000.00
240	480000.00	100000.00
241	480000.00	100000.00
242	480000.00	100000.00
243	480000.00	100000.00
244	480000.00	100000.00
245	480000.00	100000.00
246	480000.00	100000.00
247	480000.00	100000.00
248	480000.00	100000.00
249	480000.00	100000.00
250	480000.00	100000.00
251	480000.00	100000.00
252	480000.00	100000.00
253	480000.00	100000.00
254	480000.00	100000.00
255	480000.00	100000.00
256	480000.00	100000.00
257	480000.00	100000.00
258	480000.00	100000.00
259	480000.00	100000.00
260	480000.00	100000.00
261	480000.00	100000.00
262	480000.00	100000.00
263	480000.00	100000.00
264	480000.00	100000.00
265	480000.00	100000.00
266	480000.00	100000.00
267	480000.00	100000.00
268	480000.00	100000.00
269	480000.00	100000.00
270	480000.00	100000.00
271	480000.00	100000.00
272	480000.00	100000.00
273	480000.00	100000.00
274	480000.00	100000.00
275	480000.00	100000.00
276	480000.00	100000.00
277	480000.00	100000.00
278	480000.00	100000.00
279	480000.00	100000.00
280	480000.00	100000.00
281	480000.00	100000.00
282	480000.00	100000.00
283	480000.00	100000.00
284	480000.00	100000.00
285	480000.00	100000.00
286	480000.00	100000.00
287	480000.00	100000.00
288	480000.00	100000.00
289	480000.00	100000.00
290	480000.00	100000.00
291	480000.00	100000.00
292	480000.00	100000.00
293	480000.00	100000.00
294	480000.00	100000.00
295	480000.00	100000.00
296	480000.00	100000.00
297	480000.00	100000.00
298	480000.00	100000.00
299	480000.00	100000.00
300	480000.00	100000.00
301	480000.00	100000.00
302	480000.00	100000.00
303	480000.00	100000.00
304	480000.00	100000.00
305	480000.00	100000.00
306	480000.00	100000.00
307	480000.00	100000.00
308	480000.00	100000.00
309	480000.00	100000.00
310	480000.00	100000.00
311	480000.00	100000.00
312	480000.00	100000.00
313	480000.00	100000.00
314	480000.00	100000.00
315	480000.00	100000.00
316	480000.00	100000.00
317	480000.00	100000.00
318	480000.00	100000.00
319	480000.00	100000.00
320	480000.00	100000.00
321	480000.00	100000.00
322	480000.00	100000.00
323	480000.00	100000.00
324	480000.00	100000.00
325	480000.00	100000.00
326	480000.00	100000.00
327	480000.00	100000.00
328	480000.00	100000.00
329	480000.00	100000.00
330	480000.00	100000.00
331	480000.00	100000.00
332	480000.00	100000.00
333	480000.00	100000.00
334	480000.00	100000.00
335	480000.00	100000.00
336	480000.00	100000.00
337	480000.00	100000.00
338	480000.00	100000.00
339	480000.00	100000.00
340	480000.00	100000.00
341	480000.00	100000.00
342	480000.00	100000.00
343	480000.00	100000.00
344	480000.00	100000.00
345	480000.00	100000.00
346	480000.00	100000.00
347	480000.00	100000.00
348	480000.00	100000.00
349	480000.00	100000.00
350	480000.00	100000.00
351	480000.00	100000.00
352	480000.00	100000.00
353	480000.00	100000.00
354	480000.00	100000.00
355	480000.00	100000.00
356	480000.00	100000.00
357	480000.00	100000.00
358	480000.00	100000.00
359	480000.00	100000.00
360	480000.00	100000.00
361	480000.00	100000.00
362	480000.00	100000.00
363	480000.00	100000.00
364	480000.00	100000.00
365	480000.00	100000.00
366	480000.00	100000.00
367	480000.00	100000.00
368	480000.00	100000.00
369	480000.00	100000.00
370	480000.00	100000.00
371	480000.00	100000.00
372	480000.00	100000.00

APPENDIX B

Location of the Emergency Response Equipment

PROJECT

DEVELOPMENT OF
LOK MA CHAU LOOP
MAIN WORKS PACKAGE 1

CONTRACT TITLE

CONSTRUCTION AND
INFRASTRUCTURE WORKS INSIDE
LOK MA CHAU LOOP AND
WESTERN CONNECTION ROAD
PHASE 1

CLIENT

中水工程顧問
有限公司
Civil Engineering and
Management Department

CONSULTANT

AECOM Asia Company Ltd.
www.aecom.com

PREPARED BY

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK
1	2013/03/20	FOR PRELIMINARY DESIGN		
2	2013/04/10	FOR PRELIMINARY DESIGN		
3	2013/04/10	FOR PRELIMINARY DESIGN		
4	2013/04/10	FOR PRELIMINARY DESIGN		
5	2013/04/10	FOR PRELIMINARY DESIGN		
6	2013/04/10	FOR PRELIMINARY DESIGN		
7	2013/04/10	FOR PRELIMINARY DESIGN		
8	2013/04/10	FOR PRELIMINARY DESIGN		
9	2013/04/10	FOR PRELIMINARY DESIGN		
10	2013/04/10	FOR PRELIMINARY DESIGN		

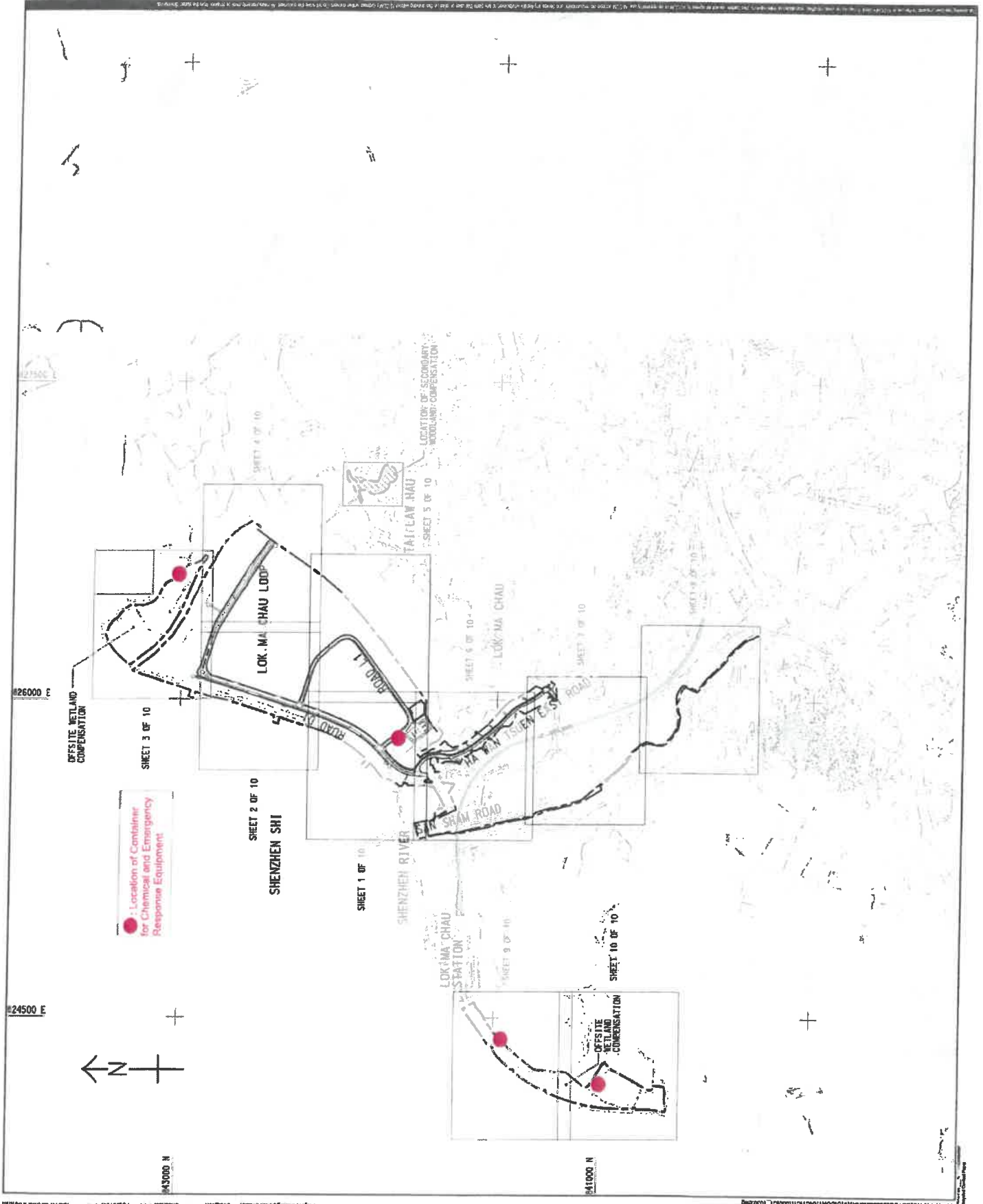
STATUS

SCALE: AS SHOWN
DATE: 2013/04/10
SHEET NO.: 10/10

PROJECT NO.: 605808015
CONTRACT NO.: V1/2010/01

DESIGN TITLE: POSSESSION AND PORTION OF SITE - NET PLAN

DATE: 2013/04/10
DRAWN BY: 605808015/10/01



APPENDIX C

Contact List of Emergency Response Team

CRCC-Kwan Lee-Paul Y. JV

Contract No: YL/2020/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

Contact List for the Emergency Contingency Plan

緊急小組聯絡電話

Name	Position	Role	Contact No.
James Au	Site Agent 工地主管	Emergency Coordinator 緊急聯絡員	9879 8109
Leo Wong	Safety Manager 安全經理	Emergency Coordinator 緊急聯絡員	9192 7740
Charles Choi	Safety Manager 安全主任	Emergency Coordinator 緊急聯絡員	9100 1109
Lila Lui	Environmental Officer 環保主任	Emergency Coordinator 緊急聯絡員	5261 0378
Jack Chu	Construction Team Leader 建築組長	Emergency Coordinator 緊急小組成員	9775 3008
Jeremy Luk	Construction Team Leader 建築組長	Emergency Coordinator 緊急小組成員	9189 0113
Desmond Tang	Construction Team Leader 建築組長	Emergency Coordinator 緊急小組成員	5188 0815
S M Ma	Section Agent 建築主管	Emergency Coordinator 緊急小組成員	6628 6221
Ray Wong	Superintendent 工地監督人	Emergency Coordinator 緊急小組成員	9171 0919
Poon Yau Kwan	Superintendent 工地監督人	Emergency Coordinator 緊急小組成員	9177 8196

APPENDIX D

Training Material for Emergency Contingency Plan

EMERGENCY PLAN FOR ACCIDENTAL SPILLAGE OF CHEMICALS/CONTAMINATED SOIL ON SITE

1. Spill Prevention and Precaution

General Precaution

- Any minor maintenance facilities should be located away from local streams and should be on hard standings within a bunded area, and sumps and oil interceptors should be provided.
- Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken with the areas appropriately equipped to control these discharges.
- Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. Washing the chemicals away is not acceptable as they will contaminate the local stream courses and the mudflat in the nearshore area.
- Storage of oils/chemicals/waste within the works area should be limited to absolute minimum volume and are to be removed from sites at the earliest opportunity.
- Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.
- Chemical waste containers should be suitably labelled to notify and warn the personnel who are handling the wastes to avoid accidents.
- Storage area should be selected at location away from local stream courses and the coastal area and adequate space should be allocated to the storage area.
- Avoid disorder and storage of unnecessary materials in works area.
- Prevent obstructions and tripping hazards.
- Lock all dangerous goods and chemical stores.

Storage Precautions

- Use solid and impermeable enclosure walls or storage shelves.
- Reduce the danger of falling of stacked containers.
- Provide tightly closed lips to avoid leakage of chemical wastes to further reduce the danger of container falling.
- Store compatible chemical wastes in the same storage area.
- Inspect the storage area to detect if any leaking or defective containers on a regular basis.
- Check the conditions of the storage containers regularly.
- Identify and provide suitable notices in storage area.
- Store large and heavy containers on the floor as far as possible or avoid storage of these containers higher than 2 feet from the floor.
- Keep chemical waste containers below eye level.
- Provide adequate space for handling of the containers.
- Maintain a log of chemical wastes.
- Separate incompatible chemicals from each other.

Transfer and Transport Precautions

- Consider the size of the container to avoid overfilling.
- Use pumps to transfer chemical wastes instead of simple pouring.
- Provide containment structure to hold the chemical wastes when leakage or spillage of chemical waste occurs.
- Use suitable carriers to transfer the chemical waste containers from one location to another.
- Employ licensed waste collectors to be responsible for chemical waste transport.

2. Responses Action

Workers should be aware of emergency telephone numbers and locations of spill kits. The response actions to an accident would include the following steps:

- Keep untrained personnel away from the spillage area or evacuate all personnel and call the emergency service if the spills are highly toxic and volatile.
- Allow only trained persons who have equipped with protective clothing and equipment to enter the spillage area for clean up.
- Transfer the spills back into containers using suitable equipment wherever practicable.
- Use suitable absorbing materials to clean up the spills and dispose the absorbing materials as chemical wastes.
- Use suitable solvent to clean the spillage area after removing the spills.
- Inform Environmental Protection Department, Fire Services Department and Police in the case where the spillage of chemicals would cause serious contamination of an area or risk of pollution.
- Prepare necessary protective devices, safety equipment, containers and clean up materials for emergency use.
- Train staff to handle the spillage of chemicals.
- Evaluate the potential hazard of the chemical wastes.

3. Spill Clean Up and Disposal

- Control the leakage of the chemical wastes and absorb the spills using suitable absorbing materials
- Use acidic or alkaline solution for neutralisation wherever appropriate
- Take special precautions for flammable wastes and wastes in powder form
- Keep and label the clean up wastes
- Clean the spillage area and equipment used in the response actions
- Dispose the clean up wastes as chemical wastes
- Safety equipment and personal protective equipment for handling of chemical wastes would be similar to that for handling of chemicals.

The equipment includes:

- Fire extinguishers
- Brush, dustpan, mop and bucket
- Dry sand tissue and toweling
- Containers including plaster bags, drums, etc
- Absorbing materials
- Pumps
- Sampling devices

Personal protective equipment:

- Safety helmet and goggles
- Gloves which can resist chemical reaction
- Protective boot and clothing
- Respirators and gas masks
- First-aid kits
- Face visor

APPENDIX E

Photo Record of the Communication with Fish Pond Operator and Villager Representative



Communication with Fish Pond Operator at TAR1.



Communication with Villager Representative.

APPENDIX F

Catalogue of the Emergency Response Equipment

Absorbent Spill Kits

BradyID.com/SPC



MAXX® Packs

- Mini-packs in re-sealable zipper bags
- 20 economic, single ply pads
- Dimensions: 15.5"L x 19.5"W x 2.45"H
- Contents:
 - 20 pads (15" x 19")

Catalog #	Type	Qty.
MXP-U20	Universal	5
MXP-O20	Oil Only	5
MXP-C20	Chemical	5



Economy Spill Kit

- Highly visible yellow PVC bag for small spills; the right price, the right size and the right value
- Absorbs up to 5 gallons per kit
- Dimensions: 20"L X 16"W X 4"H
- Contents:
 - 10 pads (15" x 19")
 - 2 SOCs (3" x 4')
 - 1 disposal bag
 - 1 pair nitrile gloves
 - 1 instruction sheet

Catalog #	Type	Qty.
SKA-PP	Universal	1
SKA-PP-TAA	Universal	1
SKO-PP	Oil Only	1
SKH-PP	Chemical	1
SKR-PP	Re-Form	1



2-Gallon Spill Response Plus Retail Spill Kit

- Small sized absorbents are highly absorbent, durable and low linting
- Idea for hospitality, retail, restaurants or anywhere that requires a small pad
- Absorbs up to 4.5 gallons per kit
- Dimensions: 9.75"Dia. X 10.5"H
- Contents:
 - 20 pads (7.5" x 10")
 - 1 pair nitrile gloves
 - 1 disposal bag
 - 1 pair goggles

Catalog #	Type	Qty.
SKA-SRP	Universal	1
SKO-SRP	Oil Only	1
SKH-SRP	Chemical	1

Absorbents and Spill Control